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Agricultural Memorandum No 498

Formulae for loss in yields due to late sowing

Area 2

L P Smith

Area 2 is the area of moderate sensitivity to reduction in schedules (Ag Mem 491)

If x_2 is the drainage factor, where Good Drainage = 1
Moderate Drainage = 1.35
Poor Drainage = 2.1
Bad Drainage = 3.0
and y is the number of days in the schedule
then the loss percentages in yield are:-

		Correlation x_2y : data
Wellingborough	$0.41x_2y - 0.7$	0.992
Reading	$0.39x_2y - 1.4$	0.993
Wisley	$0.37x_2y - 0.7$	0.989
Cambridge	$0.34x_2y - 2.2$	0.986
Watford	$0.33x_2y - 0.9$	0.985
Writtle	$0.31x_2y - 1.7$	0.980
Wimborne	$0.33x_2y$	0.990
Bedford	$0.30x_2y - 0.7$	0.986
Nottingham	$0.35x_2y - 1.4$	0.991

Example: If near Writtle, the drainage was moderate and the schedule 14 days the loss would be

$$0.31 \times 1.35 \times 14 - 1.7 = 5.9 - 1.7 = 4.2\%.$$

Changing this to good drainage and a 10 day schedule the loss would be

$$0.31 \times 1 \times 10 - 1.7 = 3.1 - 1.7 = 1.4\%.$$

a gain of about 3 percent of total yield.

Any comments or suggestions on this paper should be referred to the author.

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